

PRIORITY LIST MANUFACTURED HOMES

GENERAL HEAT WASTE (GHW) MEASURES

The following GHW measures are pre-approved for each home and should be installed in every Weatherization job unless circumstances, as documented in the WAP assessment, prohibit their use. (\$250 cost limit.)

1	DHW Pipe Insulation Insulate the first 6 feet of both hot- and cold-water pipes. Cover elbows, unions and other fittings to same thickness as pipe. Pipe insulation must remain 3 inches from gas water heater vent.
2	DHW Tank Insulation Insulate to at least R-11 with an external fiberglass-type insulation blanket unless water-heater label gives specific instructions <i>not</i> to insulate or the water heater is already insulated with an external blanket. Insulation must not obstruct the draft diverter, pressure relief valve, thermostats, hi-limit switch, plumbing pipes, or element/thermostat access plates. Keep insulation at least 2 inches away from the burner or gas valve. Do not insulate the tops of gas- or oil-fired water heaters. Pressure & temperature relief valve and safety discharge pipe – Install a pressure-and-temperature relief valve and a safety discharge pipe if none exists. Temperature and pressure relief valve discharge tube will be installed in accordance with P2803.6.1 of the 2012 International Residential Code (IRC). Temperature Setting – Electrical – Set both upper and lower thermostat to keep water at 120 ⁰ F before insulating the water heater.
3	Faucet Aerators
4	HVAC System Filters
5	Lighting Retrofits
6	Low-Flow Showerheads

ALLOWABLE INCIDENTAL REPAIR (IR) COSTS

Air Sealing	\$76.00
Roof Insulation	\$460.00
Duct Sealing	\$145.00
Wall Insulation	\$475.00
Belly or Floor Insulation	\$267.00

Total Allowable Incidental Repair Cost for each home - \$600 *

* If not all measures are installed, then the maximum allowed IR cost for that job cannot exceed the total of the allowed IR costs for each of the measures installed. For example, if the only measures installed in a home are Air Sealing, Duct Sealing and Floor Insulation, then the maximum allowable IR cost for that home is \$76 + \$145 + \$267 = \$488.

PRIORITY LIST - SC WAP MANUFACTURED HOMES

The South Carolina Priority List of measures for manufactured homes is as follows. These measures are to be installed in the order listed below, from top to bottom. Measures **shall not be skipped** unless a particular measure is not appropriate for the specific home.

1	AIR SEALING
2	ROOF INSULATION
3	DUCT SEALING
4	WALL INSULATION
5	BELLY INSULATION

1 AIR SEALING

Perform building enclosure air sealing. Use the following chart to guide air sealing procedures.

Primary Space Heating Fuel	Price per 100 CFM₅₀ Reduction
Electric Heat Pump	\$35
Natural Gas	\$45
Electric Strip Heat	\$66
Propane	\$70

Maximum Incidental Repair Cost - \$76.00

2 ROOF INSULATION

There are three basic types of mobile home roof construction: Bowstring, Pitched Roof, and Flat Roof. Inspect the cavity by drilling 3- or 4-inch inspection hole in the ceiling of a closet or pantry, as near to the center of the mobile home as possible.

Maximum Incidental Repair Cost - \$460.00

3 DUCT SEALING

Seal ducts in unconditioned areas of the home to 1 Pascal or less per register using pressure pan testing to evaluate duct leakage. Vacuum and clean before sealing ducts. Seal ducts in unconditioned areas of the home to 1 Pascal or less per register using pressure pan testing to evaluate duct leakage. Use mastic and embedded fibered tape to seal ducts and registers. Seal all holes and leaks. Two-part foam may be used to seal leaks beneath the home. If there is no ducted cold-air return system, the interior doors must be undercut at least 2 inches from the floor and the furnace closet door must be ventilated with no less than 1ft² of free air space, which means a grille of at least 2ft². Must use UL approved mastic to seal ducts and registers. Use the following chart to guide maximum DOE duct sealing expenditures.

Maximum Incidental Cost - \$145.00

Duct Sealing: Price to Seal Each Register to 1 Pascal (Maximum WAP Expenditures)									
Starting Pressure Pan Total (cumulative)	Electric Heat Pump			Natural Gas			Propane		
	Cola	Charles	Gville	Cola	Charles	Gville	Cola	Charles	Gville
50	\$430	\$464	\$430	\$619	\$567	\$567	\$950	\$782	\$731
45	\$418	\$410	\$418	\$592	\$547	\$547	\$904	\$744	\$710
40	\$363	\$386	\$363	\$554	\$475	\$475	\$785	\$646	\$617
35	\$336	\$327	\$336	\$470	\$436	\$436	\$714	\$588	\$571
30	\$276	\$289	\$276	\$414	\$386	\$386	\$625	\$515	\$469
25	\$234	\$234	\$234	\$345	\$302	\$302	\$520	\$428	\$397
20	\$182	\$175	\$169	\$265	\$234	\$234	\$397	\$327	\$309
15	\$112	\$108	\$104	\$163	\$144	\$144	\$255	\$201	\$190
10	\$30	\$27	\$30	\$36	\$36	\$36	\$56	\$46	\$57

4 WALL INSULATION

- Auditors must inspect all exterior walls for presence of existing insulation. Install insulation in walls if none exists.
- Penetrations sealed to minimize air leakage and moisture movement between unconditioned and conditioned space; all repairs will maintain structural integrity.
- All accessible holes and penetrations in top and bottom plates will be sealed.
- Sidewalls shall be insulated provided there is 2 inches or more depth in a wall that has no insulation and an area equal to one long wall (excluding doors and windows) can be insulated. If the cavity is less than 2 inches, document and provide pictures. Due to the structural limitations of mobile home walls, blown insulation shall not be allowed. Only high-density, unfaced, R-13 fiberglass insulation shall be installed.

Maximum Incidental Repair Cost - \$475.00

5 BELLY INSULATION

Fill floor cavities with loose fiberglass insulation for a consistent thermal boundary between conditioned and unconditioned space that reduces heat flow.

Maximum Incidental Repair Cost - \$267.00

Optional Measures (MHEA audit not required)

- Refrigerator Replacement – (Allowed with MHEA or Metering; must have SIR greater/equal to 1)
- Setback Thermostat

Allowable with MHEA Audit

- HVAC System Replacement
- Domestic Hot Water Heater Replacement